

# EUROPEAN PATENT OFFICE

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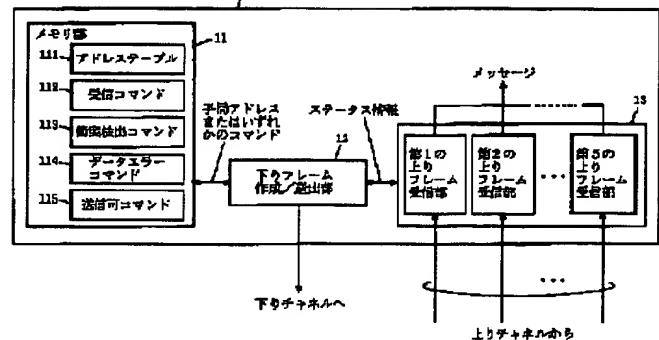
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TITLE : ACCESS CONTROL METHOD OF  
 COMMUNICATION SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To make the use of a communication channel efficient and improve the response and throughput of a slave station in a communication system wherein a master station and slave stations can communicate with each other in two ways by making the master station assigning a free channel to a selected slave station individually each time the free channel is obtained.

SOLUTION: In the communication system wherein the master station 1 and slave stations are connected by a transmission line having a down channel and plural up channels to the slave stations, the master station generates a frame containing a mode flag, a counter for counting the number of channels of communication generation and free channels, a slot pointer, and an address pointer by a down frame generation/sending-out part 12 and sends it out to a down line. Then an up line is monitored by a reception part 13 and each time a free channel of the up line, the channel is assigned to a slave station according to order set in an address table 111. Further, an unnecessary data communication is detected with status information of the reception part and the channel allocated to the slave station is released and assigned to another slave station.

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